000000014000

$$f(x) = \frac{1}{3}ax^{3} - 2x\ln x + (2 - a)x(a \in R)$$

 $\Box 1 \Box \Box ^{a} \Box \Box \Box \Box \Box \Box$ 

$$200 \stackrel{0 < a < \frac{1}{e - 1}}{00000} |_{X_{2}} - x > \sqrt{e} - 1_{0}$$

$$f(x) = ax^{2} - 2\ln x - a = a(x^{2} - 1) - 2\ln x$$

$$\square g(x) = a(x^2 - 1) - 2\ln x$$

$$0000 \stackrel{f(X)}{=} 000000 \stackrel{X}{=} \stackrel{X_2}{=} 0$$

$$\int_{\mathbb{R}^{2}} g(x) \int_{\mathbb{R}^{2}} g(x) = \frac{2(ax^{2}-1)}{X}$$

$$X \in (0, \sqrt{\frac{1}{a}}) \bigcup_{x \in A} g'(x) < 0 \bigcup_{x \in A} g(x) \bigcup_{x \in A} g(x)$$

$$\bigcap_{x \in (\sqrt{\frac{1}{a}} + \infty)} \bigcap_{x \in (x)} g'(x) > 0 \bigcap_{x \in (x)} g(x) \bigcap_{x \in (x)} g(x) \cap 0$$

$$\square^{g_{\square 1 \square} = 0_{\square}}$$

$$\int_{0}^{1} \frac{1}{a} = 1_{0} \int_{0}^{1} \frac{1}{a$$

$$\sqrt{\frac{1}{a}} \neq 1 \qquad a \neq 1 \qquad g(\sqrt{\frac{1}{a}}) < g \qquad 1 \qquad = 0 \qquad 0$$

$$\sqrt{\frac{1}{a}} > 1 \qquad 0 < a < 1 \qquad \mathcal{G}(x) \qquad (0, \sqrt{\frac{1}{a}}) \qquad x = 1 \qquad x =$$

$$g(\sqrt{\frac{1}{a}}) = \frac{1}{a} + 2\ln a - a$$

$$G_{\mathbf{a}} = \frac{1}{a} + 2\ln a - a$$

$$0 < a < 1$$

$$G_{a} = \frac{1}{a^2} + \frac{2}{a} - 1 < 0$$

$$G_{a} = \frac{1}{a^2} + \frac{2}{a} - 1 < 0$$

$$G_{a} = \frac{1}{a^2} + \frac{2}{a} - 1 < 0$$

$$\sqrt{\frac{1}{a}} < 1 \qquad (\sqrt{\frac{1}{a}} + \infty) \qquad (X = 1)$$

$$00000 \, a_{000000} \, (0_{\,\square} \, 1) \, \bigcup \, (1_{\,\square} \, + \infty)_{\,\square}$$

$$0 < a < \frac{1}{e - 1} \prod_{i = 1}^{n} f(x_i) \prod_{i = 1}^{n} X_i \prod_{i = 1}^{n} X_i \prod_{i = 1}^{n} f(x_i) \prod_{i = 1}^{n}$$

$$000 X_1 < X_2 X_2 X_1 = 1_1 X_2 > 1_1$$

$$g(x_2) = a(x_2^2 - 1) - 2\ln x_2 = 0$$

$$\varphi(x) = \frac{2\ln x}{x^2 - 1} \times 1_{\square} x > 1_{\square}$$

$$\varphi'(x) = \frac{2x(1 - \frac{1}{x^2} - 2\ln x)}{(x^2 - 1)^2}$$

$$F(x) = 1 - \frac{1}{x^2} - 2\ln x \qquad F(x) = \frac{2(1 - x^2)}{x^3} < 0$$

$${\scriptstyle \square \square}^{\varphi(X)} {\scriptstyle \square}^{(1,+\infty)} {\scriptstyle \square \square \square \square \square}$$

$$\varphi(\sqrt{e}) = \frac{1}{e - 1} \quad 0 < a < \frac{1}{e - 1} \quad 0$$

$$|X - X| > \sqrt{e} - 1$$

 $\mathcal{Y} = f(\mathbf{x})$  0  $\mathbf{X}$ 000000000  $\mathbf{P}$ 000000  $\mathbf{Y}$ 000000000 $\mathbf{X}$ 000  $\mathbf{X}$ 

$$(e-1)x + ey + e-1 = 0$$

$$\int f(-1) = 0 \int f(-1) = (b-1)(\frac{1}{e} - a) = 0$$

$$f(-1) = \frac{b}{e} - a = -\frac{e-1}{e} = -1 + \frac{1}{e}$$

$$a = \frac{1}{e_{00}}b = 2 - e < 0_{00}b > 0_{000}$$

$$a=b=1$$

$$2000001000 f(x) = (x+1)(e^x - 1)_0$$

$$\lim_{n\to\infty} y = f(x) \underset{n\to\infty}{\cap} X_{0000000000} P_{0}(-1,0)$$

$$0000 P(-1,0) 0000000 y = h(x) 0$$

$$\square \stackrel{h(x)}{=} f(-1)(x+1) \square$$

$$F(x) = f(x) - f(-1) = e^{x}(x+2) - \frac{1}{e_{\square}}$$

$$F(-1) = 0$$

$$x \in (-2,-1)_{\text{00000}} F(x) < F(-1) = 0_{\text{0}}$$

$$\square F(x) < 0 \square F(x) \square (-\infty, -1)$$

$$\square X > -1_{\square\square}$$

$$F(x) > F(-1) = 0$$
  $F(x)$   $(-1, +\infty)$ 

$$h(x) = (\frac{1}{e} - 1)(x+1) \qquad h(x) = m_{0} \quad X_{0}$$

$$x_i = -1 + \frac{me}{1 - e_{\square}}$$

$${\scriptstyle \square\square}^{X_{l^{n}}X_{\underline{l}}}{\scriptstyle \square}$$

$$t(X) = X_{\square}$$

$$T(x) = (x+2) e^x - 2$$

$$X_{x} - 2 \square T(X) = (X+2)e^{x} - 2, -2 < 0$$

$$\square X > -2 \square \square T'(X) = (X+3)e^x > 0 \square$$

$$\begin{array}{c|c} \square & \square & X \in (-\infty,0) \\ \square & \square & \end{array} \qquad \begin{array}{c} T(X) < 0 \\ \square & \square \end{array} \qquad X \in (0,+\infty) \\ \square & \square \end{array}$$

$$\ \, \square^{f(x)\dots t(x)} \, \square$$

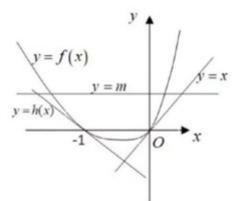
$$X_{2} = m$$

$$\square m = t(X_2) = f(X_2) \dots t(X_2) \square$$

$${\scriptstyle \begin{array}{c} X_2 \cdots X_2 \end{array} \begin{array}{c} \\ \end{array}}$$

$${\color{red} \square}^{X_{1''}} {\color{black} X_{1}} {\color{black} \square}$$

$$X_2 - X_{11}, X_2 - X_1 = m - (-1 + \frac{me}{1 - e}) = 1 + \frac{m(1 - 2e)}{1 - e}$$



$$3002021 \bullet 000000000 f(x) = (x+b)(e^{2x}-a)(b>0) 00 (-\frac{1}{2}, f(-\frac{1}{2})) 0000000 (e-1)x + ey + \frac{e-1}{2} = 0 0000000 e^{2x}$$

$$22000 \quad f(x) \quad 000 \quad X_{00000000} \quad P_{0000} \quad P_{00000000} \quad Y = f(x) \quad 000 \quad F(x) = f(x) - f(x) - f(x) \quad X \in R_{00} \quad F(x) = R_{00} \quad F(x)$$

$$3000 \ X_{000} \ f(x) = m_{000000} \ X_{0} \ X_{2} \ 000 \ X_{0} \ X_{2} \ 000 \ X_{0} \ X_{0} \ \frac{1+2m}{2} - \frac{me}{1-e_{0}}$$

$$X = -\frac{1}{2} \underbrace{000000}_{00} (e-1)X + ey + \frac{e-1}{2} = 0 \underbrace{0000}_{00} Y = 0$$

$$f(\lambda, \frac{1}{2}) = 0 \quad R(-\frac{1}{2}) = (b - \frac{1}{2})(\frac{1}{e} - \lambda) = 0 \quad D = \frac{1}{2} \quad \lambda = \frac{1}{e} \quad \Omega$$

$$f(\lambda) = e^{\lambda}(2x + 2b + 1) - \lambda = 0 \quad f(-\frac{1}{2}) = \frac{2b}{e} - \lambda = \frac{e - 1}{e} = -1 + \frac{1}{e} \quad \Omega$$

$$a = \frac{1}{e} \quad b = \frac{2 - e}{2} \quad \Omega$$

$$D = \frac{1}{2} \quad D = 1 \quad D = \frac{1}{2} \quad \Omega$$

$$D = \frac{1}{2} \quad D = 1 \quad D = \frac{1}{2} \quad D = \frac{1}{2} \quad D \quad D = \frac{1}{2} \quad D = \frac{1}{$$

$$\square^{m=h(X_i)=f(X_i)..h(X_i)} \square \square \stackrel{X_i,,X_i}{\square}$$

$$000 \ \mathcal{Y} = f(\mathbf{x}) \ 00 \ (0,0) \ 0000000 \ \mathcal{Y} = f(\mathbf{x}) \ 00 \ f(\mathbf{x}) = X_0$$

$$T(x) = f(x) - t(x) = (x + \frac{1}{2})(\vec{e}^x - 1) - x, T(x) = 2(x + 1)\vec{e}^x - 2$$

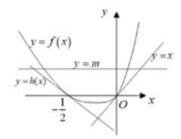
$$X_{x} - 1_{x} T(x) = 2(x+1)e^{x} - 2, -2 < 0$$

$$\lim_{n\to\infty} y = T(x)_{n}(-1,+\infty)_{n\to\infty} T(0) = 0_{n}$$

$$0000 \ \mathcal{Y} = \mathcal{T}(\mathbf{x}) \ 000 \ (-\infty,0) \ 000000000 \ (0,+\infty) \ 0000000$$

$$y = f(x) \underset{\square \square \square \square \square \square}{ } m = f(x_{\underline{z}}) = f(x_{\underline{z}}) \dots f(x_{\underline{z}}) \underset{\square \square \square}{ } x_{\underline{z}} \dots x_{\underline{z}} \underset{\square \square}{ }$$

$$X_{1} X_{2} X_{3} X_{4} = M^{2} - X_{1} X_{2} - X_{3} = M^{2} - (-\frac{1}{2} + \frac{me}{1 - e}) = \frac{1 + 2m}{2} - \frac{me}{1 - e}$$



1. 0

Olionoo Y=f(x) o xooooooo Pooooo Poooooo Aoooooo Y=f(x) oooooooo Aoooo

$$\lim_{x \to \infty} f(x) = m(m > 0) \lim_{x \to \infty} X_{1}(x_{1} < x_{2}) \lim_{x \to \infty} X_{2} - X_{1} < 2 - \frac{7m}{10} \lim_{x \to \infty} x_{2}(x_{1} < x_{2}) \lim_{x \to \infty} x_{2}(x_{2} < x$$

$$000001000 f(x) = a - e^x$$

$$00000 f(nB) = a - e^{in3} = 0$$

$$F(x) = f(x) - g(x) = 3x - e^x + 1 - (3 - e^x)(x - x_0)$$

$$F(x) = 3 - e^{x} - (3 - e^{x_0}) = e^{x_0} - e^{x}$$

$$\therefore F(x)_{\square}(-\infty, \chi)_{\square \square \square \square \square \square \square}(\chi_{\square}^{+\infty})_{\square \square \square \square \square \square}$$

$$\therefore F(x)_{max} = F(x_0) = f(x_0) - g(x_0) = 0$$

 $\lim_{n\to\infty} g(x) = m_{n\to\infty} X_2^{-n}$ 

$$(3-e^{x_0})(X_2'-X_0) = m_{000} X_2' = \frac{m}{3-e^{x_0}} + X_0$$

$$\operatorname{dodd} \operatorname{B} < X_{\underline{z}} < X_{\underline{z}}'$$

$$\Gamma(X) = 2X - f(X) = e^{x} - X - 1_{\square}(X > 0)_{\square}$$

$$I^{*}(X) = e^{x} - 1 > 0$$

$$\therefore I(X) \Box (0,+\infty)$$

$$\therefore I(X) > I(0) = 0$$

$$\therefore y = 2x_{00000} f(x)_{0000}$$

$$y = 2x_0 y = m_0$$

$$\therefore X_2 - X_1 < X_2' - X_1' = \frac{m}{3 - e^{8}} + X_1 - \frac{m}{2}$$

$$y = \frac{m}{3 - e^{x}} + x_0 - \frac{m}{2} (hB, 2)$$

$$\therefore X_2 - X_1 < \frac{m}{3 - e^2} + 2 - \frac{m}{2} < \frac{m}{2 - 7} + 2 - \frac{m}{2} = 2 - \frac{7m}{10}$$

010000 <sup>f(x)</sup>0000

 $P_{00000} = P_{0000000} = P_{0000000} = P_{0000000}$ 

$$000000010000000 f(x) = 6(1 - x^{\circ})_{0} f(x) = 0_{0} x = 1$$

$$x = 1_0 f(x) = 0$$

$$\lim_{\square \square \square} P(\chi_{\square} 0) \lim_{\square \square} \chi = \sqrt[3]{6}_{\square} f(\chi) = -30_{\square}$$

$$\bigcap_{x \in \mathcal{X}} f(x) \bigcap_{x \in \mathcal{X}} P_{00000000} y = f(x)(x - x) = -30(x - \sqrt[3]{6})_{0}$$

00000 
$$P$$
00000000  $Y = -30(X - \sqrt[3]{6}) \cdots 06 00$ 

$$\lim_{x \to \infty} g(x) = -30(x - \sqrt[3]{6}) \lim_{x \to \infty} F(x) = f(x) - g(x)$$

$$\therefore_{\square} X \in (-\infty, X_0) \underset{\square}{\square} F(X) > 0 \underset{\square}{\square} X \in (X_0 \underset{\square}{\square} + \infty) \underset{\square}{\square} F(X) < 0$$

$$\therefore F(x)_{\square}(-\infty, X)_{\square \square \square \square \square \square}(X_{\square} + \infty)_{\square \square \square \square \square}$$

$$\therefore \forall x \in R_{\square} F(x), F(x) = 0 \quad \forall x \in R_{\square \square \square} f(x), g(x) = 0$$

$$g(x) = a_{000} X_{2} \cdot A_{2}' = 6^{\frac{1}{5}} - \frac{a}{30}$$

$$\therefore X_{2} \leq X_{2}$$

$$000 \ \mathcal{Y} = f(x) \ 000000000000 \ \mathcal{Y} = f(x) \ 0000 \ f(x) = 6x_0$$

$$\forall x \in R_{\bigcirc \square} \ f(x) - f(x) = -x^{\epsilon},, 0_{\bigcirc \square} \ f(x),, \ f(x)_{\bigcirc}$$

$$D(X) = \partial_{\Omega(X)} X' = \frac{\partial}{\partial \Omega} X' = \frac{\partial}{\partial \Omega}$$

$$\dot{\cdot}\cdot X_{1}^{'},_{1}X_{1}^{'}$$

$$\therefore X_2 - X_1, X_2' - X_1' = (a^{\frac{1}{5}} - \frac{a}{30}) - \frac{a}{6} = a^{\frac{1}{5}} - \frac{a}{5}$$

$$X_2 - X_1, a^{\frac{1}{5}} - \frac{a}{5}$$

$$6002021 \bullet 0000000 \quad f(x) = 4x - x^4 \quad x \in R_0$$

$$0000010000 f(x) = 4x - x^4_{000} f(x) = 4 - 4x^3_{0}$$

$$\int f(x) > 0_{00} X < 1_{0000} f(x)_{00000}$$

$$\therefore \ f(x)_{00000000} (-\infty,1)_{000000000} (1,+\infty)_{0}$$

$$\lim_{n\to\infty} p_{n,n}(x_n^{-n}) = 4^{\frac{1}{5}} f(x_n^{-n}) = 12^{\frac{1}{5}} f(x_n^$$

$$y = f(x) \underset{\square}{\square} P_{\square \square \square \square \square \square} y = f(x_0)(x - x_0) \underset{\square}{\square} g(x) = f(x_0)(x - x_0) \underset{\square}{\square}$$

$$\mathbb{I} \quad F(X_0) = 0 \text{ if } X \in (-\infty, X_0) \text{ if } F(X) > 0 \text{ if } X \in (X_0 + \infty) \text{ if } F(X) < 0 \text{ if } F$$

$$\therefore F(x)_{\square}(-\infty, X)_{\square \square \square \square \square \square \square \square}(X_{\square}^{+\infty})_{\square \square \square \square \square \square \square}$$

$$\therefore 000000 X_0 F(x), F(x) = 0_{0000000 X_{000}} F(x), g(x)_0$$

$$g(x) = -12(x - 4^{\frac{1}{3}}) \underbrace{0000}_{0000} g(x) = a_{0000} X_2' \underbrace{0000}_{0000} X_2' = -\frac{a}{12} + 4^{\frac{1}{3}}$$

000000 
$$y = f(x)$$
 000000000  $y = h(x)$  000  $h(x) = 4x$ 

$$000000 X \in (-\infty, +\infty) \bigcirc f(x) - f(x) = -x^4, 0 \bigcirc f(x), f(x) \bigcirc$$

$$\int h(x) = a_{000} X'_{000} X' = \frac{a}{4}$$

$$\square\square^{X_1'',X_1'}\square$$

$$X_2 - X_{1''} X_2' - X_1' = -\frac{a}{3} + 4^{\frac{1}{3}}$$

0100 <sup>g(x)</sup> 00000

020000000000X000f(x)...g(x)

$$f(x) = alnx - \frac{1}{x_0} \cdot f_{e} = a - \frac{1}{e}$$

$$f_{\square e \square} = 0 \qquad \therefore g(x) = (a - \frac{1}{e})(x - e)$$

$$200000 F(x) = f(x) - g(x) = f(x) - f_{e}(x - \theta)$$

$$F(x) = f(x) - f_{e} = alnx - \frac{1}{x} - a + \frac{1}{e} (0, +\infty)$$

$$0 < X < e_{\square} P(X) < 0 P(X) = 0$$

$$\therefore F(x) \dots F_{\mathbf{e}} = 0$$

$$\therefore f(x)..g(x) = 0$$

$$300000 a = 100 f(x) = (hx - 1)(x - 1) 00 f(x) = hx - \frac{1}{x}$$

$$f(x) = 1 - \frac{1}{e} > 0$$

$$\therefore \square \square X \in (1, \partial) \square f(X) = 0$$

$$\therefore \exists X \in (0, X_0) \qquad f(X) < 0 \qquad f(X) \qquad 0 \qquad 0$$

$$0 = f(x) = f(x) = (e, 0)$$

$$= f(x) \dots g(x) = f(x) = (1,0) = 0$$

$$\prod H(x) = f(x) - h(x) = (\ln x - 1)(x - 1) - (-x + 1) = (x - 1)\ln x$$

$$X > 1$$
  $X - 1 > 0$   $In X > 0$   $0 < X < 1$   $X - 1 < 0$   $In X < 0$ 

$$\bigcap \bigcap X_1 \leq X_2 \bigcap X_1 \geq X_1 \cap X_2 \leq X_2 \cap \bigcap X_3 \leq X_3 \cap \bigcap X_4 \leq X_4 \cap \bigcap X_5 \leq X_5 \cap \bigcap X_5 \cap \bigcap X_5 \leq X_5 \cap \bigcap X_5$$

$$g(x) = h(x) = m_{000} X_{2}' = \frac{em}{e-1} + e_{00} X_{1}' = 1 - m_{00}$$

$$|X_2 - X_1| \le |X_2 - X_1| = m(1 + \frac{e}{e - 1}) + e - 1$$

$$F(x) = \begin{cases} (x+1)e^{x}, x \cdot 0, \\ x^{n} + 1, x < 0 & \text{on } P(-1_{0} f(-1)) \text{ on on on } 4x + y + b = 0 \end{cases}$$

$$000 \ \mathcal{Y} = \mathcal{U}_{\square} \ \mathcal{Y} = \mathcal{G}(\mathbf{X}) \ \square \ \mathcal{Y} = \mathcal{U}(\mathbf{X}) \ \square \ \square \ \square \ \square \ \square \ \square \ \mathcal{X}_1 \ \square \ \mathcal{X}_2 \ \square$$

$$\vec{X_1} = -\frac{m+2}{4} \vec{X_2} = \frac{m}{3e} + \frac{1}{3} \vec{X_1}, \vec{X_1}, \vec{X_2} ... \vec{X_2}$$

$$X_2 - X_1 < X_2 - X_1 = \frac{5}{6} + m(\frac{1}{3e} + \frac{1}{4}) \sum_{\square \square} X_2 - X_1 < \frac{5}{6} + m(\frac{1}{3e} + \frac{1}{4})$$

9002021 
$$\bigcirc \bullet$$
00000000000  $f(x) = (x+1)(e^x - 1)_0$ 

0200 a,, e- 10000 
$$f(x)$$
... alnx+ 2ex-  $2 \cdot x \in [1 \cdot x^{+\infty}]$  00000

$$f(x) = (x+1)(e^{x}-1) \bigcap f(x) = (x+2)e^{x}-1$$

$$f(-1) = \frac{1}{e} - 1 \qquad f(-1) = 0$$

$$y = \frac{1 - e}{e}(x+1)$$

$$g(x) = (x+2)e^{x} - 1 - \frac{e-1}{x} - 2e$$

$$\ \ \, \bigcirc \mathcal{G}(x) ... \mathcal{G}_{\boxed{1}} = 2e - \ 2 - \ 2e + \ 2 = 0 \\ \ \ \, \bigcirc (x+1)(e - 1) ... (e - 1) \ln x + 2e x - \ 2 ... \\ \ \ \, a \ln x + 2e x - \ 2 \\ \ \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - \ 2 ... \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - \ 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - \ 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \ \, \bigcirc (x+1)(e - 1) \ln x + 2e x - 2 \\ \ \ \, \bigcirc (x+1)(e$$

$$3000100 f(x) 00 (-10 f(-1)) 0000000 y = \frac{1-e}{e}(x+1)$$

$$F(x) = f(x) - \frac{1 - e}{e}(x + 1) = (x + 1)(e^x - \frac{1}{e}) F(x) = (x + 2)e^x - \frac{1}{e} F(x) = (x + 3)e^x$$

$$_{\square} X < -3_{\square\square} F'(x) < 0_{\square\square} X > -3_{\square\square} F'(x) > 0_{\square}$$

on 
$$F(\mathbf{X})$$
 of  $(-\infty, -3)$  denotes  $(-3, +\infty)$  denotes

$$F(-3) = -\frac{1}{e'} - \frac{1}{e} < 0 \lim_{x \to -\infty} F(x) = -\frac{1}{e_0} F(-1) = 0 \lim_{x \to -\infty} F(x) = -\frac{1}{e_0} F(-1) = 0 \lim_{x \to -\infty} F(x) = 0$$

$$F(x)...F(-1) = 0 \Rightarrow f(x)...\frac{1-e}{e}(x+1)$$

$$S(x) = \frac{1 - e}{e}(x + 1) = b \qquad X = \frac{eb}{1 - e} - 1 \qquad b = S(x') = f(x) \cdot ... \\ S(x) = S(x) = R \cdot ... \\ S(x) = R \cdot ... \\ R_{0} = R \cdot ...$$

$$00000 \ f(x) \ 00 \ (1,2e-2) \ 0000000 \ f(x) = (3e-1)x-e-1_0$$

$$G(x) = (x+2)e^x - 3e_{\Box}G'(x) = (x+3)e^x_{\Box}$$

oo 
$$G(x)$$
 o  $(-\infty, -3)$  oo oo oo  $(-3, +\infty)$  oo oo oo

$$000 t(x) = (3e-1)x-e-1 = b_{00} x'_{2} = \frac{e+1+b}{3e-1}$$

$${}_{\square}b=t(x_{2})=f(x_{2})...t(x_{2}){}_{\square\square}t(x){}_{\square}R_{\square\square\square\square\square\square}$$

$$\square\square^{X_{\!\scriptscriptstyle 2''}} \stackrel{X_{\!\scriptscriptstyle 2}''}{\longrightarrow} \square$$

$$\begin{bmatrix} & X_1'', \ X_1 & X_2'', \ X_2' & \end{bmatrix}$$

$$X_2 - X_{11}, X_2 - X_{12}, 1 + \frac{b+e+1}{3e-1} + \frac{eb}{e-1}$$

$$2000 \stackrel{f(x)...ax}{\sim} R_{000000} \stackrel{a}{\sim} 000$$

$$0000001000 f(x) = (x+1)(e^x-1)_{00} f(x) = (x+2)e^x-1_{00}$$

$$f(-1) = \frac{1}{e} \cdot \frac{1}{1} = 0$$

$$0000 (-1_0 f(-1)) 0000000 y = \frac{1-e}{e} (x+1)$$

$$\square 2 \square \square h(x) = f(x) - ax = (x+1)e^{x} - (x+1) - ax_{\square}$$

$$\Box h'(x) = (x+2)e^x - 1 - a_{\Box}$$

$$\prod_{x} m(x) = (x+2)e^{x} \prod_{x} m(x) = (x+3)e^{x} \prod_{x} m(x)$$

$$D_{\square} h(0) = 2_{\square \square} h(0) = 1 - a_{\square} h(0) = 0_{\square}$$

$$0^{h(x)} = 0^{x=0} = 0$$

$$\square^{(0,+\infty)} \square^{h'(x)} > 0_{\square\square} h(x)_{\square\square\square\square\square}$$

$$a > 1$$
  $X = (x + 2)e^x = a + 1$   $X = X > 0$ 

$$h(x)$$
  $(0, x)$   $(0, x)$   $(0, x)$ 

$$h(x) = (x = 0) = 0$$

$$n_{\Pi} n_{\Pi} n_{\Pi} a = 1_{\Pi}$$

$$f(x)_{0}(-3,+\infty)_{0}=0$$

$$\int f(x) = 0 \mod t \mod f(-1) \cdot f(0) < 0 \mod t \in (-1,0)$$

$$f(x) = b = b = f(x) =$$

 $X_{0} = A - \frac{1}{e_{0}} \qquad X_{0} = \frac{1}{e_{0}} \qquad A = \frac{2}{e_{0}} \qquad A = \frac{2}{e_{0}}$ 

$${\color{red} \square^{\varphi({\color{black} {\color{black} {\color{black}$$

$$|X - X_2| = X - X < (a + e) - (-a - \frac{1}{e}) = 2a + e + \frac{1}{e}$$

$$12002021 \cdot 0000000 f(x) = nx \cdot x^n$$
  $x \in R_{000} n \in N_{00} n.2_{0}$ 

01000 <sup>f(x)</sup>00000

#### 

$$\prod_{n \in \mathbb{N}} f(x) = nx - x^n \prod_{n \in \mathbb{N}} f(x) = n - nx^{n-1} = n(1 - x^{n-1}) \prod_{n \in \mathbb{N}} n \in \mathbb{N}_{n} n \cdot 2$$

#### 

X	(-∞,-1)	(- 1,1)	(1,+∞)
f(x)	-	+	-
f(x)	A	1	A

$$000 \ f(\textbf{x}) \ 0 \ (-\infty, -1) \ 0 \ (1, +\infty) \ 0000000 \ (-1, 1) \ 000000$$

### $0200^{11}00000$

$$\int f(x) < 0_{00} x > 1_{0000} f(x)_{00000}$$

$$\lim_{n\to\infty} P_{n}(x_n) = \prod_{n\to\infty} f(x_n) = n - \prod_{n\to\infty}$$

$$0 = P(x) = 0 \quad \text{of } x \in (0, x) \quad \text{of } F(x) > 0 \quad \text{of } x \in (x + \infty) \quad \text{of } F(x) < 0 \quad \text{of } x \in (x + \infty) \quad$$

$$000000000 X_{000} F(X), F(X) = 0$$

$$\mathcal{G}(x) = a_{000} X_2 \cdot A_2 \cdot A_3 = \frac{a}{n \cdot n^2} + X_3$$

$$\operatorname{conion} \mathcal{G}(X_{\underline{i}})...f(X_{\underline{i}}) = a = \mathcal{G}(X_{\underline{i}}') \operatorname{con} X_{\underline{i},n} X_{\underline{i}}' \operatorname{con}$$

0000000 
$$y = f(x)$$
 0000000000  $y = h(x)$  0

$$\int_{\Omega} h(x) = a_{\Omega} \int_{\Omega} X' \int_{\Omega} X' = \frac{a}{n}$$

$$\prod h(x) = nx_{\square} \left( -\infty, +\infty \right) = 0 = 0 = 0 = h(x) < h(x) = a = f(x) < h(x) = f(x) = f(x) < h(x) = f(x) = f(x) < h(x) = f(x) = f$$

$$X_2 - X_1 < X_2' - X_1' = \frac{a}{1-n} + X_0$$

$$00 n.2_{000} 2^{n.1} = (1+1)^{n.1}..1 + C_{n-1} = 1 + n-1 = n_0$$

$$2.. n^{\frac{1}{r-1}} = X_0$$

$$|X_2 - X_1| + \frac{\partial}{1 - n} + 2$$

13\_2017•\_\_\_\_\_\_ 
$$f(x) = (x^2 - x)e^x$$

$$020000 f(x) = m(m \in R) 0000000 X_0 X_0 000000 | X - X_2 | < \frac{m}{e} + m + 1$$

$$\therefore y = f(x) \underset{\bigcirc}{\bigcirc} (1_{\square} f_{\square 1 \square}) \underset{\bigcirc}{\bigcirc} (1_{\square} y = g(x)) = e(x-1)_{\square}$$

$${{\mathbb D}^{H'}({\boldsymbol X})} = 0 \underset{\square \square \square}{\square} {{X}} = -3 \underset{\square \square}{\square} {{X}} = 0 \underset{\square \square \square}{\square} {{Y}} = H({\boldsymbol X}) \underset{\square}{\square} (-\infty, -3) \underset{\square}{\square} (0, +\infty) \underset{\square \square \square \square}{\square}$$

$$H(-3) = \frac{5}{e^3} - e < 0, H(1) = 0$$

$$\therefore X \in (-\infty,1) \prod H(X) < 0 \prod Y = H(X) \prod V = H(X)$$

$$x \in (1_{\square} + \infty_{\square})_{\square} H(x) > 0_{\square} y = H(x)_{\square}$$

$$\therefore h(x.h_{\square 1 \square} = 0_{\square}$$

$$\therefore f(x)..g(x)$$

$$\therefore X_3 < X_1 < X_2 < X_4 \square$$

$$|X - X_2| < X_4 - X_5 = \frac{m}{e} + m + 1$$

$$f(x) = m(x) - g(x) + 3$$

$$0000000(I)g_{010} = 1_0 g(x) = 4x^3_0 g_{010} = 4_0$$

$$y = 1 = 4(x - 1) = 0$$

$$f(x) = n(x) - g(x) + 3 = 4x - 3 - x^4 + 3 = 4x - x^4$$

$$f(x) = 4 - 4x^{3} \prod f(\sqrt[3]{4}) = 4 - 4 \times 4 = -12 \prod$$

$$\therefore f(x)_{\bigcirc \bigcirc} P_{\bigcirc \bigcirc \bigcirc \bigcirc} I \colon y = -12(x - \sqrt[3]{4})_{\bigcirc}$$

$$h(x) = -12 - 4 + 4x^3 = 4(x^3 - 4) = 4(x - \sqrt[3]{4})(x^2 + 2\sqrt[3]{2} + \sqrt[3]{4}x)$$

$$\therefore h(x)...h(\sqrt[3]{4}) = 0$$

$$\therefore -12(x-\sqrt[3]{4})...4x-x^4$$

0000 
$$Y = f(x)$$
 00000000  $I$ 0000

(II) 
$$f(x) \cap P_{\square \square \square \square}$$
 I:  $y = -12(x - \sqrt[3]{4})_{\square}$ 

$$00000 f(x) 00(0,0) 000000 y=4x_0$$

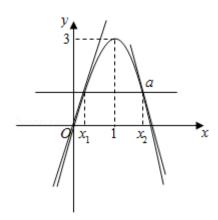
$$y = a_{\square} y = 4x_{\square} y = -12(x - \sqrt[3]{4})_{\square \square \square \square \square \square \square \square \square \square} x_{_{\!\!\!\square}} x_{_{\!\!\!\square}} x_{_{\!\!\!\square}}$$

$$4x - f(x) = x^4 ... \Omega(x... 0)$$

$$X_{3} = \frac{a}{4} X_{4} = \sqrt[3]{4} - \frac{a}{12}$$

$$|X_2 - X_1| < X_3 - X_3 = \sqrt[3]{4} - \frac{a}{12} - \frac{a}{4} = \sqrt[3]{4} - \frac{a}{3} < 2 - \frac{a}{3}$$

$$|X_2 - X_1| \le 2 - \frac{a}{3}$$





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